Service Manual

YOKO®

YCT-1468

CAUTION
Before servicing the chassis, read the "Safety Precaution", "X-Ray Radiation Precaution" and "Product Safety Notice" on Page 2 of this manual.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The normal value of the high voltage of this receiver is 24 KV at zero beam current (minimum brightness) under 220V AC power source. The high voltage must not, under any circumstances, exceed 25 KV.

2. Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.

3. The primary source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.

4. Some parts in this receiver have special safety — related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING: Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver.

The following are the necessary precautions to be observed before servicing this chassis.

1. Since the power supply circuit of this receiver is directly connected to the AC power line, an isolation transformer should be used during any dynamic service to avoid possible shock hazard.

2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.

3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

4. When replacing parts or circuit boards, disconnect the power cord.

5. When replacing a high wattage resistor (oxide metal film resistor) on circuit board, keep the resistor 10 mm (1/2 in.) away from circuit board.

6. Connection wires must be kept away from components with high voltage or high temperature.

7. If any fuse in this TV receiver is blown, replace it with the FUSE specified in the chassis parts list.

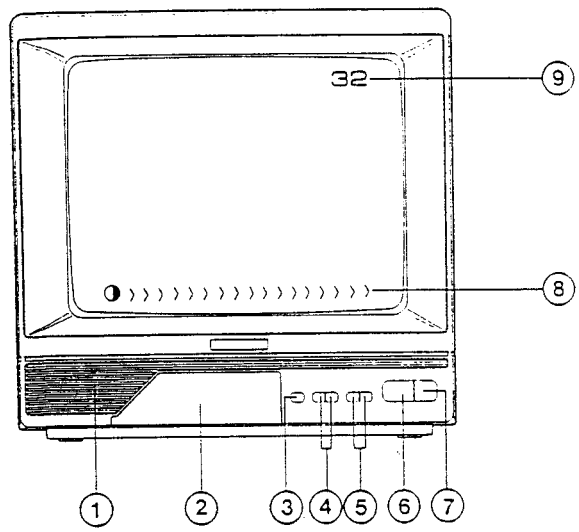
8. The receiver is designed to operate with 220V (50Hz) AC mains.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the X-RAY RADIATION protection afforded by them cannot necessarily be obtained by using replacement components rated for higher wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements electrical components having such features are marked with "⚠" on the schematic diagram and the parts list.

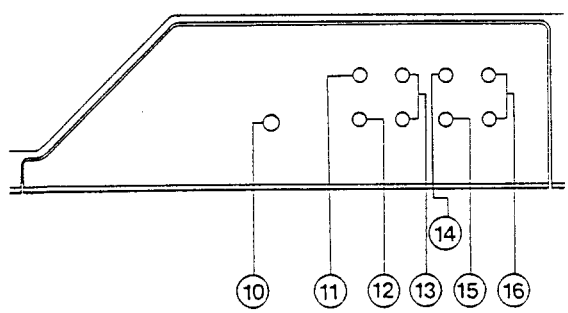
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-RAY RADIATION or other hazards.

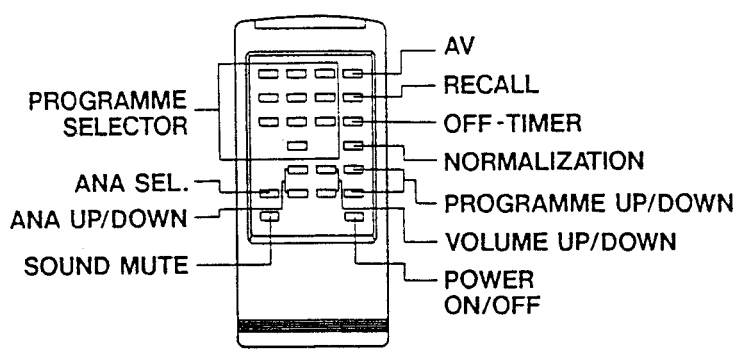
OPERATING CONTROLS



(1) SPEAKER
(2) COMPARTMENT DOOR
(3) AV BUTTON
(4) VOLUME CONTROL (UP/DOWN)
(5) PROGRAMME BUTTONS (UP/DOWN)
(6) INFRA-RED RECEIVING WINDOW
(7) MAIN POWER SWITCH
(8) ANALOG DISPLAY (VOLUME, BRIGHTNESS, CONTRAST)
(9) PROGRAMME POSITION, OFF-TIMER, AV, MUTE AND TUNING DISPLAY
(10) PAL/SECAM B/G/SECAM L SELECTION BUTTON
(11) AUTO MEMO
(12) AUTO SEARCH/MANUAL TUNING
(13) SEARCHING/TUNING (UP/DOWN)
(14) BAND SELECTION BUTTONS
(15) ANALOG SELECTION BUTTONS
(16) ANALOG SELECTION (UP/DOWN)

BEHIND THE PRESET DOOR

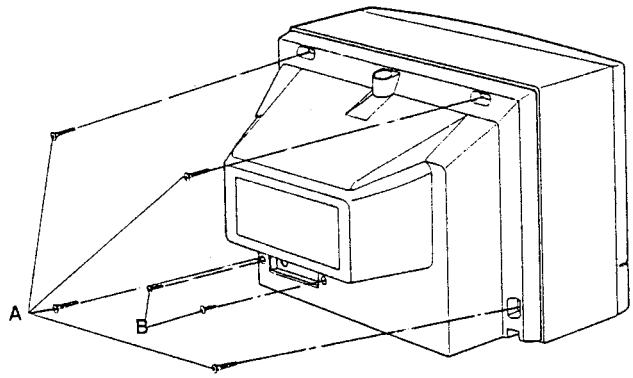




WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 2 OF THIS MANUAL.

CABINET BACK REMOVAL

1. Disconnect the antenna leads from the antenna terminals.
2. Remove 4 screws (A) securing the back cabinet to the wooden cabinet.
3. Remove 2 screws (B) securing the back cabinet to the jack plate and detach the back cabinet.



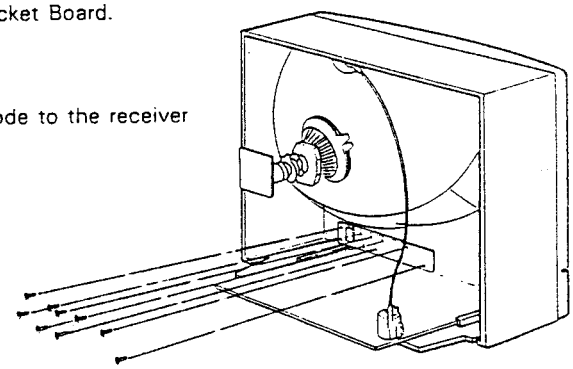
CHASSIS REMOVAL

Following the steps under Back Cabinet Removal, proceed as follows:-

1. Unplug the CRT grounding wire socket connected to the CRT Socket Board.
2. Detach the picture tube anode cap.

Notice: Certainly dischange the high potential of the picture tube anode to the receiver chassis before removing the anode cap.

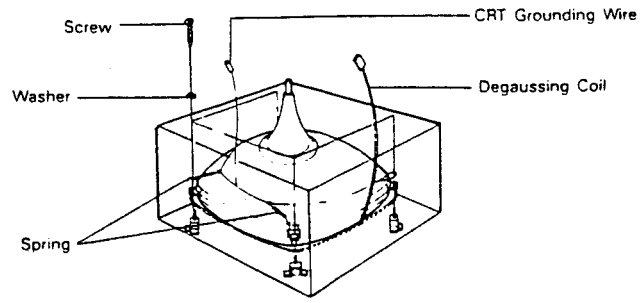
3. Detach the CRT Socket (CRT Socket Board).
4. Take out the chassis from the chassis holder.
5. Remove 9 screws securing the control board to front panel.
6. Take out the control board from the front panel.



PICTURE TUBE REMOVAL

Following the steps under CHASSIS REMOVAL proceed as follows:

1. Place the cabinet with the front down on a rolled pad or some suitable cushion placed near the top edge of the front panel.
2. Remove 4 screws securing the picture tube to the cabinet, and detach the CRT with the degaussing coil, then grasp the face plate edge of the picture tube with both hands and take out the picture tube.
3. Detach the CRT grounding wire which is attached to the picture tube lugs with spring.



GENERAL ADJUSTMENT INSTRUCTION

This receiver is transistorized and special care should be taken when servicing. Read the following matters that demand special attention before attemping adjustment.

1. Adjustment requires an exact procedure and should be undertaken only when necessary.
2. An isolation transformer should be used during any dynamic service to avoid possible shock hazard.
3. The test equipment specified or its equivalent is required to perform the alignment properly. Use of equipment which does not meet these requirements may result in improper alignment.
4. Correct matching of the equipment is essential. Failure to use proper matching will result in responses which can not represent the ture operation of the receiver.
5. The AC power line voltage should be kept 215 to 225 volts 50Hz during alignment.
6. Do not attempt to connect or disconnect any wire while the receiver is in operation. Make sure the power cord is disconnected before replacing parts in the receiver.
7. Unless otherwise noted, do not perform any adjustment until the receiver has been turned on for at least 10 minutes.

I. PICTURE AND SOUND I.F. ADJUSTMENT

Test Equipment:

1. AM/FM signal generator (4.5MHz — 6.5 MHz)
2. Sweep/Marker signal operator (30MHz — 60MHz)
3. Sync. oscilloscope.
4. Oscilloscope (volt sensitivity over 10mV and input impedance over 1 Mohm, below 10PF).
5. Probe (Low capacitance).
6. High Impedance electronic voltmeter on VTVM (Input impedance having 100 Kohm/V at least.
7. DC power supply (Source such as a battery or a well regulated and isolated DC bias supply).

(A) PICTURE I.F. AND AFC ADJUSTMENT:

(a) P.I.F. Alignment

(1) Connect the signal output of sweep/marker generator in series to Tp on tuner through 1 Kohm resistor and 1000PF capacitor (See Fig. 8).
(2) Connect the vertical input terminal of an sync oscilloscope in series with a 100 Kohm resistor to Tp4.
(3) Apply a+16V DC across C317 on Main Board.
(4) Apply a+4V DC dummy AGC bias in series to Pin 14 of IC101 through 500 ohm resitor.
(5) Tune L103 and L104 alternatively to obtain a waveform as shown in Fig. 9.

(b) AFC Alignment

(1) Carry out AFC adjustment after P.I.F. adjustment is made.
(2) Reconnect the vertical input of the sync. oscilloscope with 1 Mohm resistor in series to Pin 5 of IC101.
(3) Adjust L105 for the AFC waveform as shown in Fig.10.

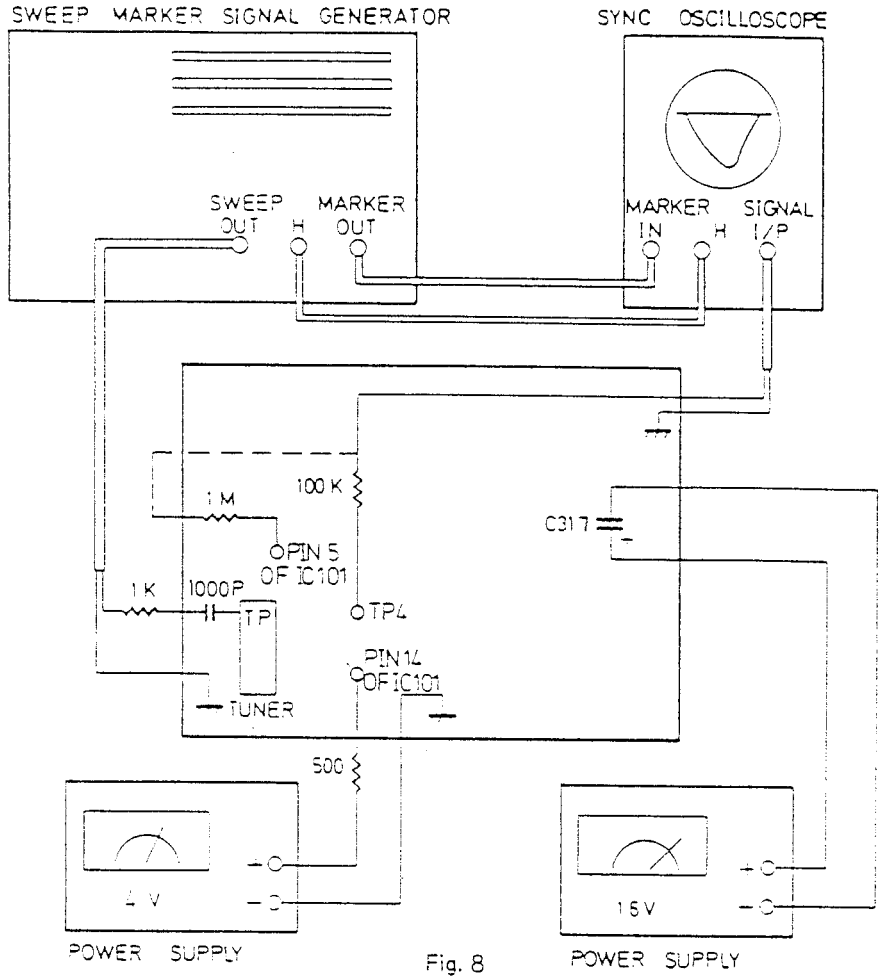


Fig. 8

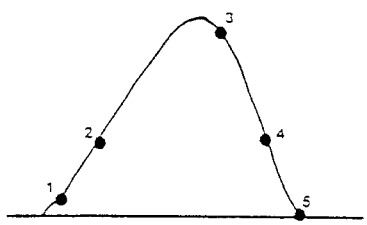


Fig. 9 P.I.F. Response Curve

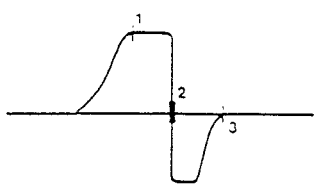


Fig. 10 AFC Response Curve

P. I. F. RESPONSE

NO.	B/G	dB
1	33.4 MHz	−20 ~ −26
2	34.47 MHz	−6 ±1
3	37.9 MHz	0
4	38.9 MHz	−6 ± 1
5	40.4 MHz	> − 40

AFC RESPONSE

NO.	B/G	dB
1	37.9 MHz	+
2	38.9 MHz	0
3	40.4 MHz	−

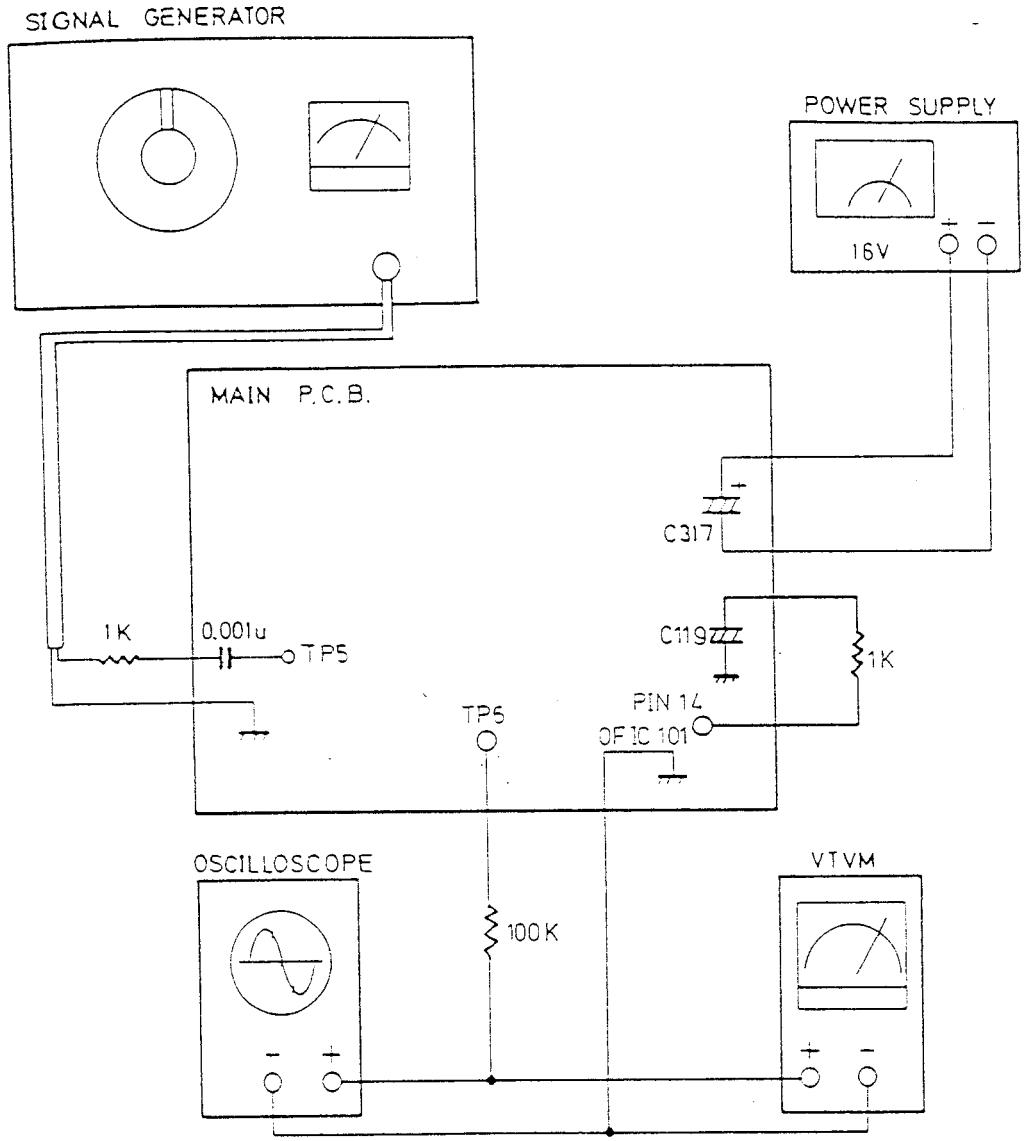


Fig.11

(B) S.I.F. ALIGNMENT

(1) Connect the S.G. output to TP5.
(2) Connect the oscilloscope input in series with a 100 Kohm resistor to TP6
(3) Connect a 1 Kohm resistor across IC101 Pin 14 and B+12V.
(4) Adjust L108 for symmetrical waveform and the 5.5MHz marker point rest on the DC line. The 5.5MHz marker and the corresponding ±100KHz marker points should be a straight line after adjustment, see Fig. 11 as shown.

(C) S.I.F. ALIGNMENT (AM 6.5MHz)

(1) Connect the signal output of sweep/marker generator in series to TP2 (C131) through 1 Kohm resistor and 1000PF capacitor (see Fig. 12).
(2) Connect the vertical input terminal of an sync. oscilloscope in series with a 10 Kohm resistor to TP3.
(3) Apply a + 16V DC across C317 on Main Board and connect a 1 Kohm resistor across IC101 Pin 14 and B+12V.
(4) Apply a +2.8V DC dummy AGC bias in series to Pin 13 of IC102 through 500 ohm resistor.
(5) Connect a dummy resistor 100 ohm in parallel with R135.
(6) Tune L112 for maximum amplitude of 31.4MHz.
(7) Tune L111 for maximum amplitude of 33.4MHz.
(8) Remove the 100 ohm dummy resistor.
(9) Tune L113 for maximum amplitude of 32.4MHz.
(10) Fine adjust L111, L112, L113 to obtain a wavefore as shown in Fig. 13

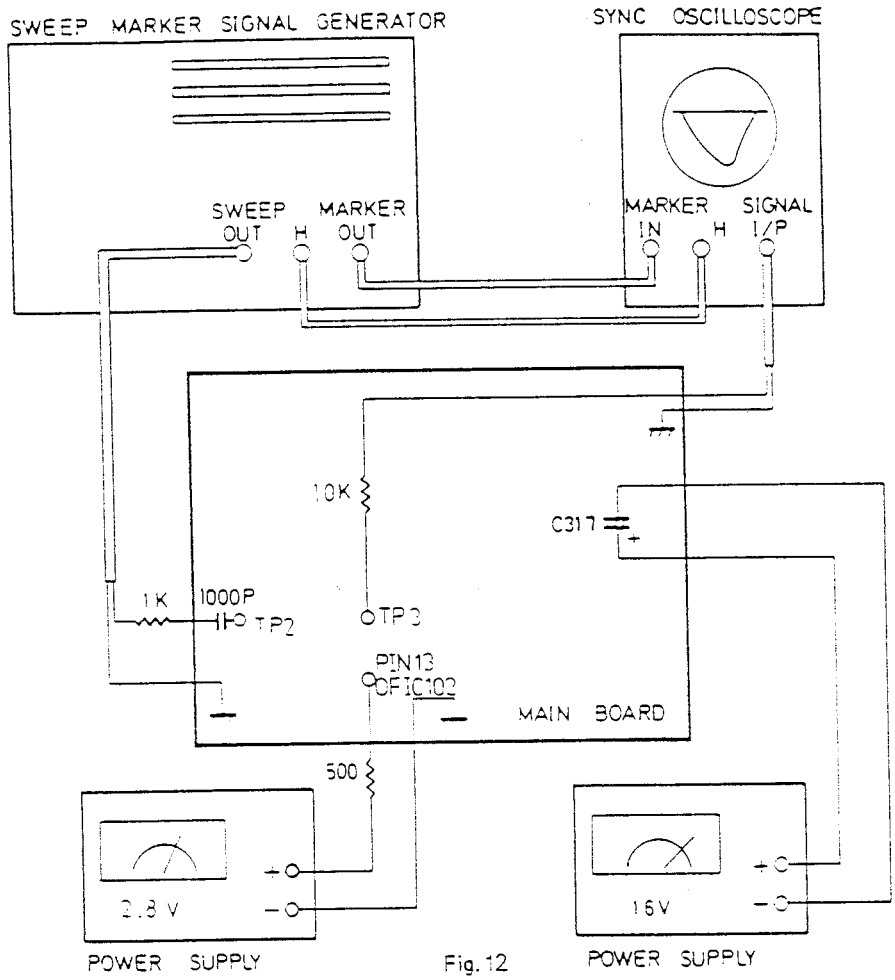


Fig. 12

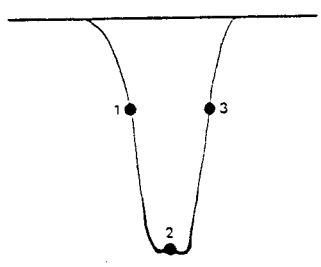


Fig. 13 P.I.F. Response Curve

P. I. F. RESPONSE

No.	B/G	dB
1	33.4 MHz	−6 ± 1
2	32.4 MHz	0
3	31.4 MHz	−6 ± 1

II. General Adjustment

1. Automatic Degaussing

An automatic degaussing coil is attached around the picture tube, degaussing the tube properly in about one second after the set is switched on. If the receiver is moved or faced in a different direction, the power must be switched off at least 15 minutes in order that the automatic degaussing circuit operates properly. External degaussing is necessary if the automatic degaussing proves ineffective after the set is moved.

External degaussing is done by moving a degaussing coil circlewise in front of the face plate and then moving it away step by step until it is about two meters from the screen, then switch off the degaussing coil. If residual colour spots are still found on the screen, adjust the colour purity and convergence.

2. B+ (110V) adjustment

CAUTION: To avoid X-ray hazards, B+ voltage must be set correctly at 110V postion.

(a). Make sure the AC power supply is 220V, 50Hz.
(b). Switch on the TV receiver, tune in an active channel.
(c). Connect test point TP11 on the main PCB (G01-A118A-20) to a reliable DC voltmeter.
(d). Adjust VR601 on main PCB (G01-A118A-20) for B+ 110V voltage reading.

3. High Voltage Check

CAUTION: There is no high voltage adjustment in this chassis. B+ 110V voltage relates to the high voltage, it must be properly adjusted to insure the correct high voltage. The high voltage does not exceed 25KV under any conditions

(a). Connect an accurate high voltage meter to the second anode cap of the picture tube.
(b). Turn on the receiver, set Brightness and Contrast controls to minimum. (Zerobeam current)
(c). Make sure the high voltage does not exceed 24KV.
(d). No matter whether the luminance, contrast and chrominance controls are set to maximum or minimum, the high voltage must be kept under 24KV.

4. Horizontal Oscillator Adjustment

Receive the Philips pattern and set input signal level at about 38dB. Adjust Horizontal hold control (VR205) to the centre of the pull-in range.

5. Vertical Oscillator Adjustment

Receive the Philips pattern and set input signal level at about 38dB. Adjust Vertical hold control (VR206), to the centre of the pull-in range.

6. Height Adjustment

1. Receive the Philips pattern signal.
2. Adjustment the height control (VR207) to slightly overscan the screen.

7. Focusing

Receive a TV test pattern signal, adjust controls for optimum picture. Adjust Focus Control for a well-defined, sharpest display in the centre area of the screen.

8. Delay AGC Adjustment

(a) Tune in the Colour bar pattern signal.
(b) Set input signal level at 60dB (1mV).
(c) Connect a high impedance DC voltmeter to tuner AGC terminal.
(d) Adjust RF AGC control (VR101) for 7.5V $\pm$0.2V reading.
(e) Increase input signal level to 100dB (100mV).
(f) Check for normal picture, sound and sync.

9. Sub-Brightness Adjustment.

(a) Receive the Philips pattern signal.
(b) Set the Contrast, Brightness and Colour Controls to the minimum
(c) Adjust Sub-Brightness Control (VR401) until light just appears on the screen.

10. Sub-Colour Adjustment.

(a) Receive the Philips pattern signal.
(b) Set the Contrast, Brightness and Colour Control to normal.
(c) Adjust sub-colour control (VR402) optimize the colour

11. White Balance Adjustment
   (a) Receive a monochrome signal.
   (b) Set the R.G.B. bias controls (VR503, VR504, VR505) and the G.B. drive controls (VR501, VR502) at center positions.
   (c) Rotate the screen control fully counterclockwise.
   (d) Disconnect the luminance output terminal connector and connect TP5 to ground with a jumper wire.
   (e) Rotate the screen control gradually clockwise until the first horizontal appears on the screen.
   (f) If the first horizontal is in blue, adjust VR503, VR504 to increase the red and green component level to get a white horizontal line
   (g) Remove the jumper wire and connect back the luminance output connector. Set the luminance output connector. Set the luminance and contrast controls at normal position. Adjust VR501, VR502 to maintain a good white balance at the brightest part of the screen.
   (h) Turn the brightness and contrast controls to maximum and minimum. Observe the screen white balance, if it is not proper in high brightness or low brightness condition, adjust R.G.B. cut of controls or G.B. drive controls in order to maintain a good white balance in both low and high luminance conditions.

12. Luminance Channel Chroma Trap
   (a) Tune in a colour bar signal
   (b) The test probe of oscilloscope connects to the pin 3 of IC201 and ground
   (c) Adjust trap coil of DL201 for minimum chroma signal (4.433 MHz).

13. Colour Sync Adjustment
   (a) Tune in a colour bar signal.
   (b) Set the contrast control to minimum and colour maximum.
   (c) Cut off the colour killer by connection on pin 2 and pin 12 of IC201 with 10 Kohm resitor.
   (d) Short L204 to ground by Jumper wire.
   (e) Adjust the colour sync. variable capacitor (C240) on the main board so that the colour bar pattern stand still or drifts slowly across the picture screen.
   (f) Remove the resistor and jumper wire.
   (g) Check that the colour sync. is stable with channel changing and power-off operation. If the colour is slow to appear or the colour sync. is out of order, return the colour sync. variable capactor (C240) for proper colour display.

14. PAL Matrix Adjustment
   (a) Tune in a colour bar signal
   (b) Use oscilloscope with 2 channesl input and set to "X—Y" mode.
   (c) Channel 1 (X) is connected to TP206 (pin 21 of IC201) (R—Y)
   (d) Channel 2 (Y) is connected to TP207 (pin 22 of IC201) (B—Y)
   (e) Adjust amplitude balance VR202 until the centre points of two wave forms bring together (Fig. 15.)
   (f) Adjust T205 until all other points of two waveforms bring together (Fig. 15.)
   (g) Adjust T206 to obtain the maximum hexagon.

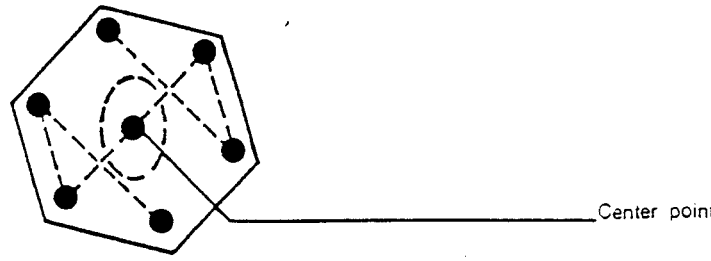


Fig. 15 Matrix Vector Diagram.

15. On-screen Display Position Adjustment

(a) Set the picture to normalization by pressing " ⋈ ".
(b) Press "ANA. SEL." key until " ◑ " and level display shown.
(c) Adjust L401 for the on-screen display position symmetry of the screen.

III. COLOUR DECODER ADJUSTMENT FOR SECAM SYSTEM

1. Bell Filter Adjustment

(a) Apply a SECAM colour bar signal (60dB level) to the input.
(b) Connect an oscilloscope to Pin 27 of IC202.
(c) Adjust L207 to make the envelop of colour bar signal into flat. (Fig. 19)

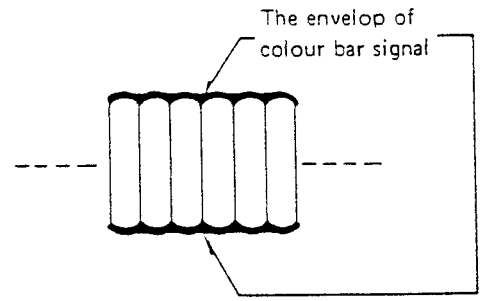


Fig. 19 SECAM Colour bar signal

2. Identifier Adjustment

(a) Apply a SECAM colour bar signal (60dB level) to the input.
(b) Connect a high impedance DC Voltmeter to Pin 26 of IC202.
(c) Adjust L208 to the ident filter voltage into maximum value (≒ 9.6V).

3. B-Y Demodulation

(a) Apply a SECAM colour bar signal to the input.
(b) Set Brightness, Contrast and Colour controls to the maximum.
(c) Connect an oscilloscope to Pin 2 of socket B.
(d) Adjust L209 to obtain a B-Y signal with correct chrominance output, as shown in Fig. 20.

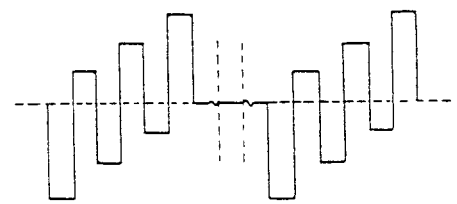


Fig. 20 B-Y Signal

4. R-Y Demodulation

(a) Apply a SECAM colour bar signal.
(b) Set Brightness, Contrast and Colour controls to maximum.
(c) Connect an oscilloscope to Pin 3 of socket B.
(d) Adjust L210 to obtain an R-Y signal with correct chrominance output, as shown in Fig. 21.

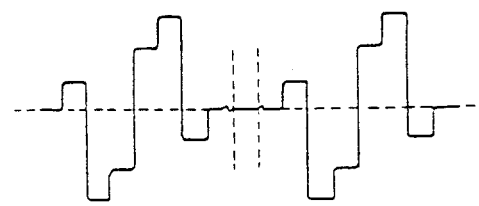
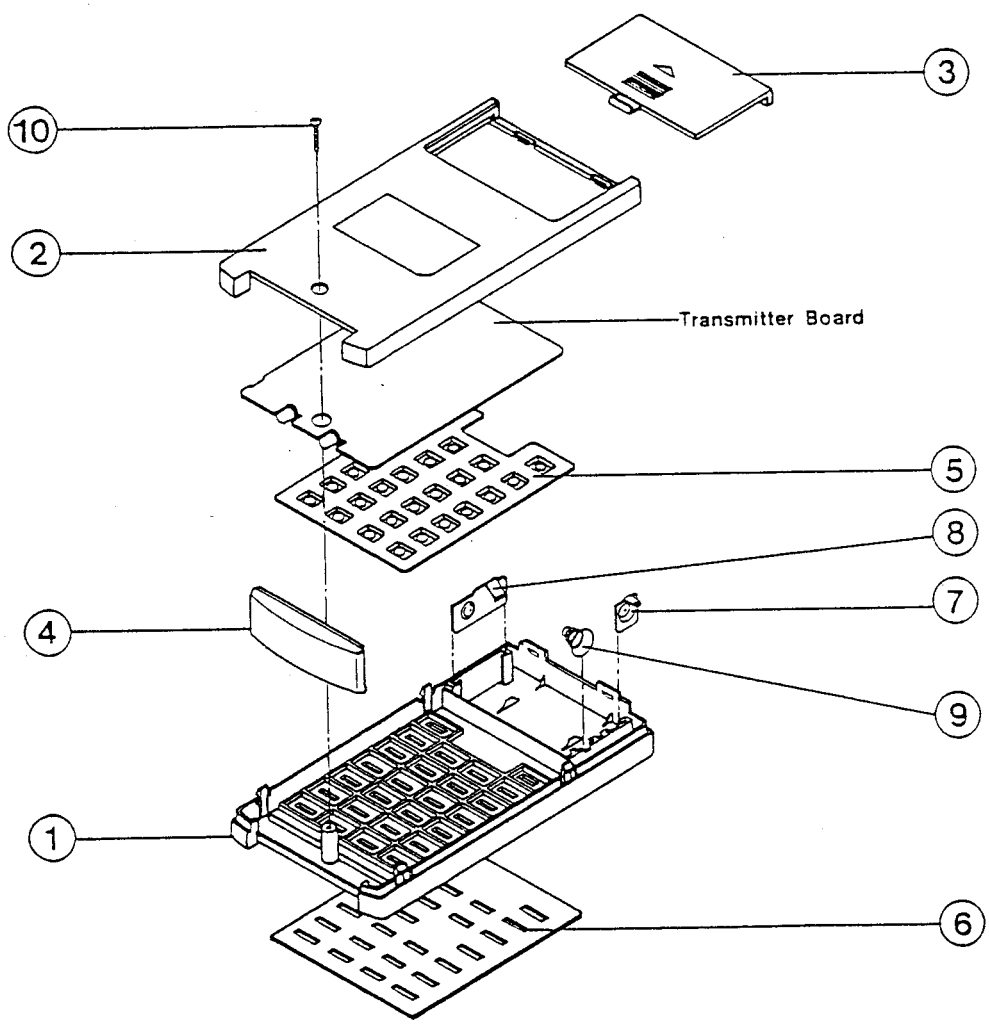


Fig. 21 R-Y Signal

REMOTE CONTROL UNIT

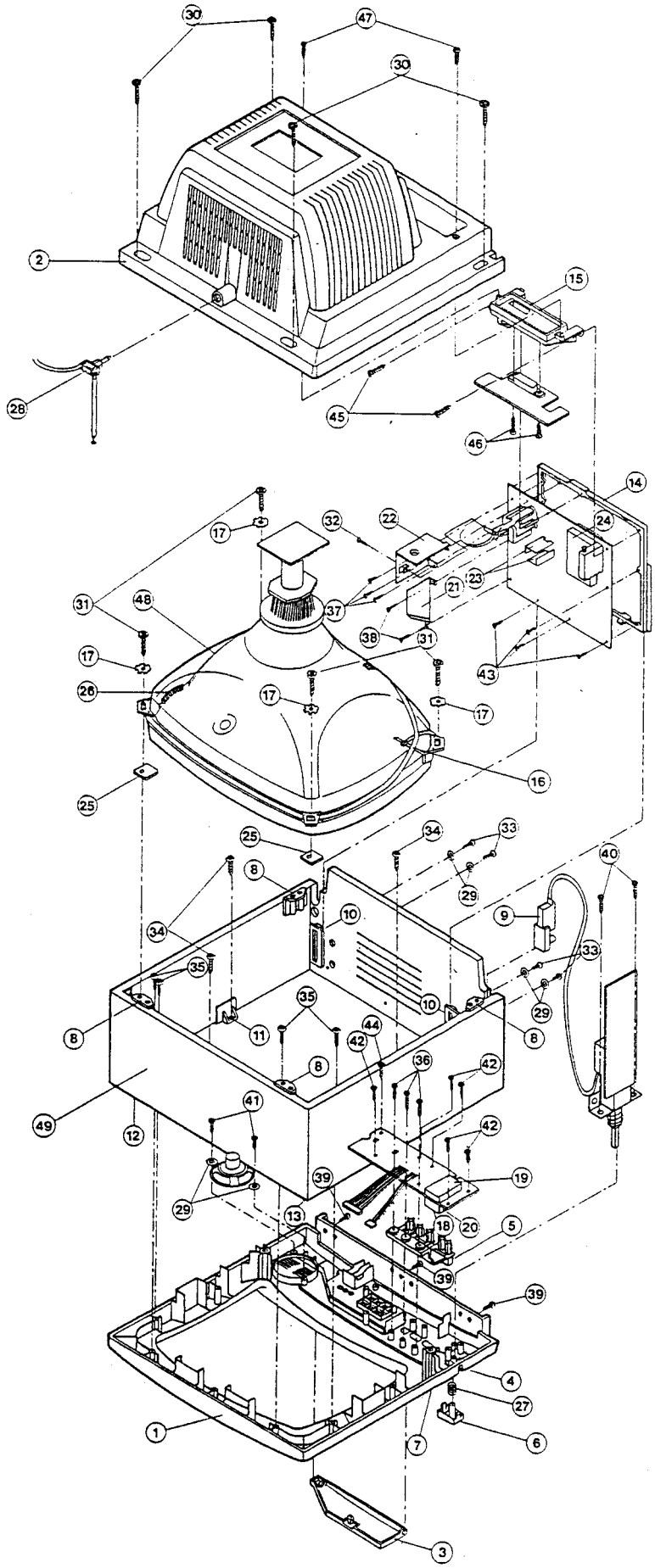


MECHANICAL PART LIST

ITEM	PART NO.	DESCRIPTION
1.	A01-A0078-06	Top Cabinet
2.	A01-A0079-01	Bottom Cabinet
3.	A01-A0080-00	Battery Door
4.	A01-A0081-00	Infrared Lens
5.	D01-A0020-00	Rubber Contact Plate

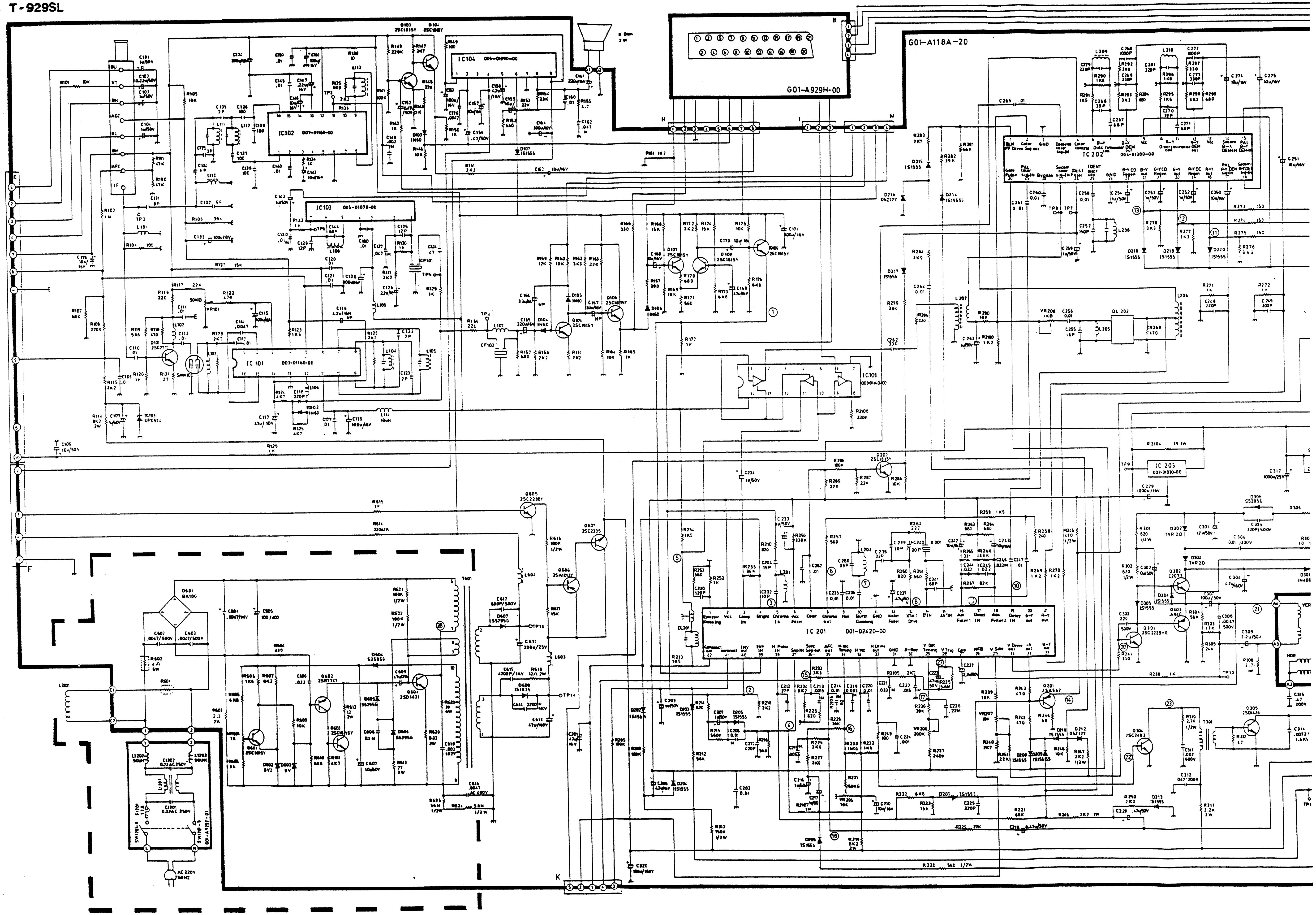
ITEM	PART NO.	DESCRIPTION
6.	D00-A0054-00	Handset Inlay
7.	B00-A0025-00	Battery Contact Plate (+)
8.	B00-A0024-00	Battery Contact Plate (+/–)
9.	E00-A0009-00	Battery Contact Spring (–)
10.	M3P-T2601-08	Screw T2.6 x 8 P/H (+)

EXPLODED VIEW OF MAIN UNIT



MECHANICAL PARTS LIST FOR MAIN UNIT

ITEM	PART NO.	DESCRIPTION
1	A01-A0097-03	FRONT PANEL — BLACK MOULDED W/HITE SILK SCREEN, (W/AV) ANTHRACITE BLACK SPRAY
2	A01-A0098-01	BACK CABINET — BLACK MOULDED
3	A01-A0100-02	CONTROL COMPARTMENT DOOR — BLACK MOULDED ANTHRACITE BLACK SPRAY W/SILKSCREEN
4	A01-A0099-01	DECORATIVE INSERT — BLACK MOULDED W/CHROME PLATED
5	A01-A0101-00	CONTROL BUTTON — BLACK MOULDED
6	A01-A0104-02	POWER KNOB — BLACK MOULDED
7	A01-A0106-00	INFRARED LENS — DARK RED MOULDED
8	A01-A0108-00	BACK CABINET MTG. HOLDER — BLACK MOULDED
9	A01-A0112-00	AC LINE CORD HOLDER — BLACK MOULDED
10	A01-A0105-00	MAIN CHASSIS MTG. BRACKET — BLACK MOULDED
11	A01-A0107-00	PANEL MTG. BRACKET — BLACK MOULDED
12	A01-A0102-00	PICTURE TUBE MTG. BRACKET (LEFT) — BLACK MOULDED
13	A01-A0103-00	PICTURE TUBE MTG. BRACKET (RIGHT) — BLACK MOULDED
14	A03-B0111-00	CHASSIS BRACKET — BLACK MOULDED
15	A03-B0135-01	JACK PLATE — BLACK MOULDED
16	A04-A0114-00	CABLE TIE L = 8"
17	B01-A0001-01	METAL WASHER
18	B00-A0038-00	SHIELD CAN "A"
19	B00-A0048-00	SHIELD CAN "B"
20	B00-A0040-00	SHIELD CAN "C"
21	B01-A0061-00	HEAT SINK BRACKET FOR POWER
22	B01-A0006-00	HEAT SINK FOR HORIZON AMP
23	B01-A0007-00	HEAT SINK TRANSISTOR
24	B01-A0030-00	PIF SHIELDING COVER
25	B00-A0052-00	METAL FIXER (FOR CRT FIXING)
26	E00-A0001-00	GROUNDING WIRE SPRING 7 DIA. × 14 FOR TWISTED WIRE
27	E00-A0011-00	POWER KNOB SPRING
28	F00-A0004-00	INDOOR ANTENNA — SINGLE TYPE (VHF) 8 DIA. × 200 (W/RCA JACK)
29	L00-P4014-M1	PLAIN WASHER I.D.4 × O.D.14 × 1MMT
30	M3B-T4001-20	T4 × 20 B/H (+) FOR BACK CAB./WOODEN CAB. MTG. "BLACK"
31	M1B-T4001-20	T4 × 20 B/H (+) FOR CRT MTG.
32	M1B-T4001-10	T4 × 10 B/H (+) FOR HEAT SINK/FLY BACK TRANS. MTG.
33	M1B-T3001-15	T3 × 15 B/H (+) FOR WOODEN CAB./MAIN CHASSIS BKT. MTG.
34	M1W-T3001-15	T3 × 15 W/H (+) FOR WOODEN CAB./FRONT PANEL MTG.
35	M1W-T3001-15	T3 × 15 W/H (+) FOR WOODEN CAB./FRONT PANEL MTG.
36	MIP-T3001-12	T3 × 12 P/H (+) FOR CONTROL P.C.B./CONTROL BUTTON/FRONT PANEL MTG.
37	MIP-T3001-12	T3 × 12 P/H (+) FOR HEAT SINK/CHASSIS BKT. MTG.
38	MIP-T3001-12	T3 × 12 P/H (+) FOR HEAT SINK/CHASSIS BKT. MTG.
39	M1W-T3001-10	T3 × 10 W/H (+) FOR WOODEN CAB./FRONT PANELMTG.
40	M1P-T3001-10	T3 × 10 P/H (+) FOR POWER SW./FRONT PANEL MTG.
41	M1P-T3001-06	T3 × 6 P/H (+) FOR SPEAKER MTG.
42	M1P-T3001-08	T3 × 8 P/H (+) FOR CONTROL P.C.B./FRONT PANEL MTG.
43	M1P-T3001-08	T3 × 8 P/H (+) FOR MAIN P.C.B./CHASSIS BKT. MTG.
44	M1P-T3001-06	T3 × 6 P/H (+) FOR CONTROL P.C.B./FRONT PANEL MTG.
45	M1B-T3001-12	T3 × 12 B/H (+) FOR JACK PLATE/P.C.B./CHASSIS BKT. MTG.
46	M1B-T3001-14	T3 × 14 B/H (+) FOR PIN CONNECTOR/JACK PLATE MTG.
47	M3B-M3050-08	M3 × 8 B/H (+) FOR BACK CAB./JACK PLATE MTG. "BLACK"
48	P01-01086-01	TWISTED WIRE L = 860MM
49	Z01-A0001-00	WOODEN CABINET


G01-A929H-00
G01-A118A-20
IC101 003-01160-00
IC102 007-01160-00
IC103 005-01070-00
IC104 005-01090-00
IC106 003-01140-00
IC201 001-02420-00
IC202 004-01300-00
IC203 007-01030-00
8 Ohm 2 W
AC 220V 50HZ
G01-A929F-01
Q605 2SC2230Y
Q607 2SC2335
Q606 2SA1013Y
Q604 2SD1631
Q602 2SB774T
Q601 2SC1815Y
Q603 2SC1815Y
Q201 2SA562
Q301 2SC2229-0
Q302 C2073
Q303 A940
Q304 2SC2482
Q305 2SD1426
D601 BA10G
T601
T301
L2001
DL201
DL202
VER
HOR

G01-A118A-20

G01-A929H-00

G01-A118E-00

IC 202 004-01300-00

IC 201 001-02420-00

IC 203 007-21030-00

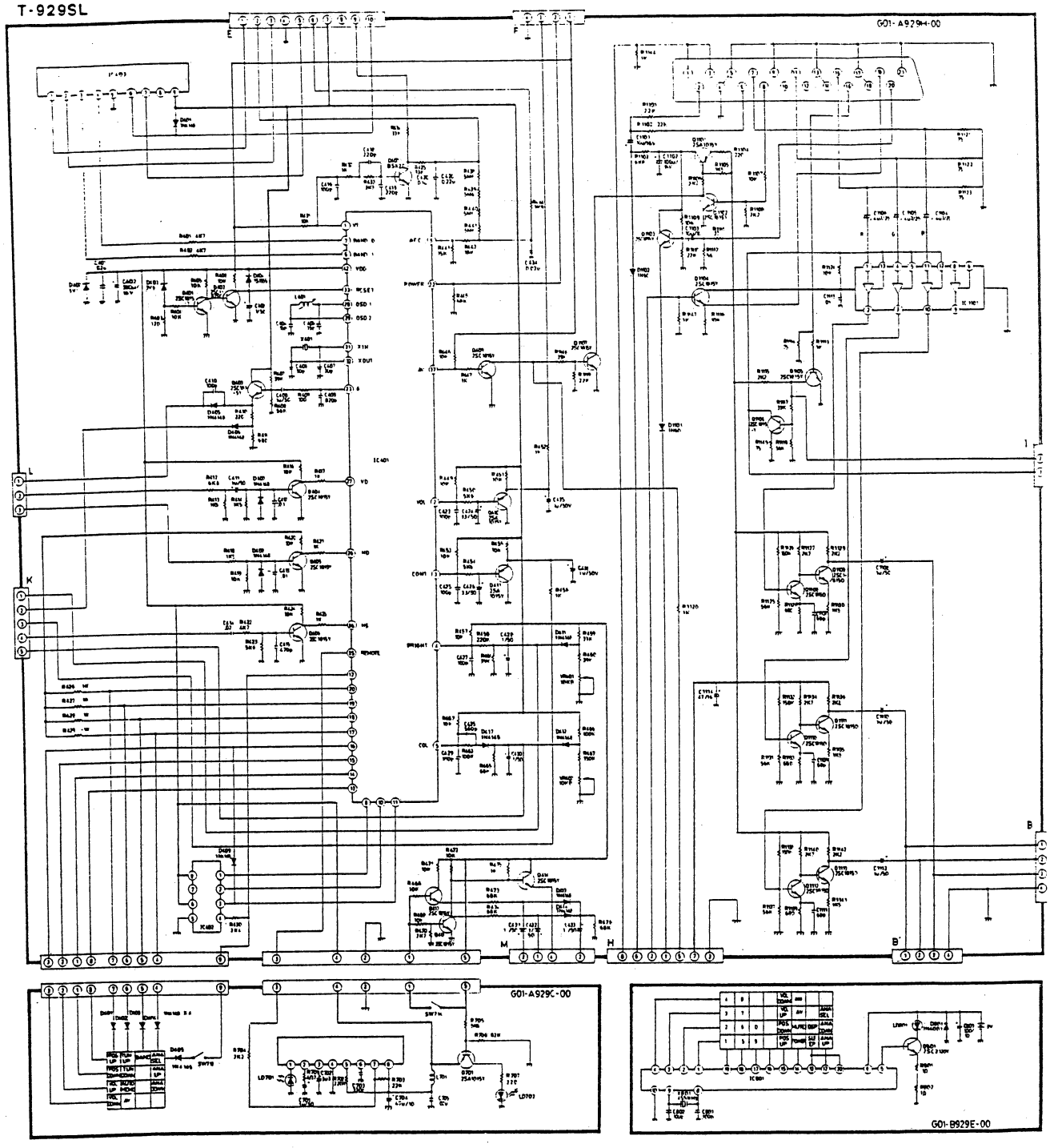
IC 104 001-01090-00

IC 103 005-01070-00

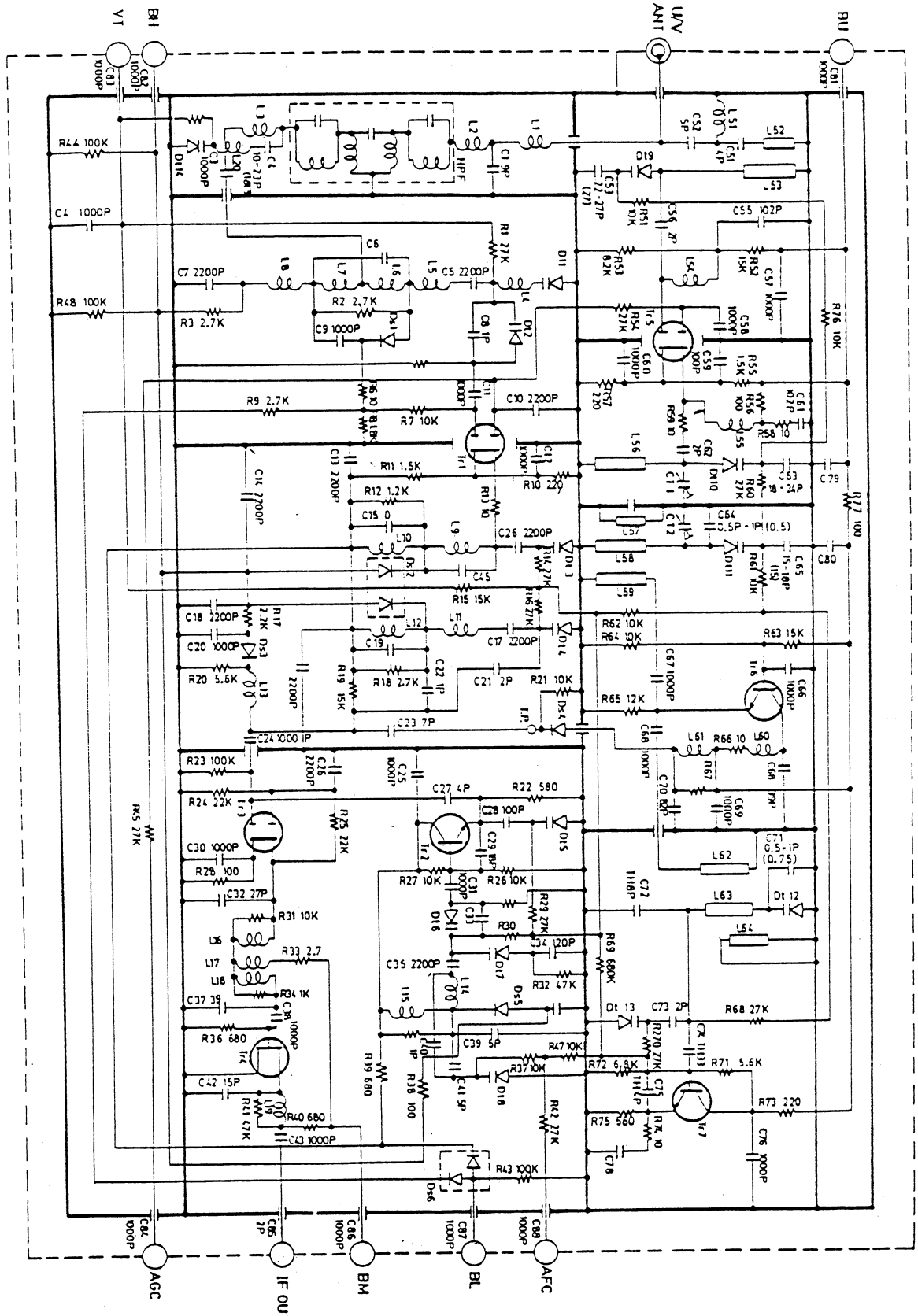
IC106 003-01400-00

R.G.B. INPUT CIRCUIT DIAGRAM

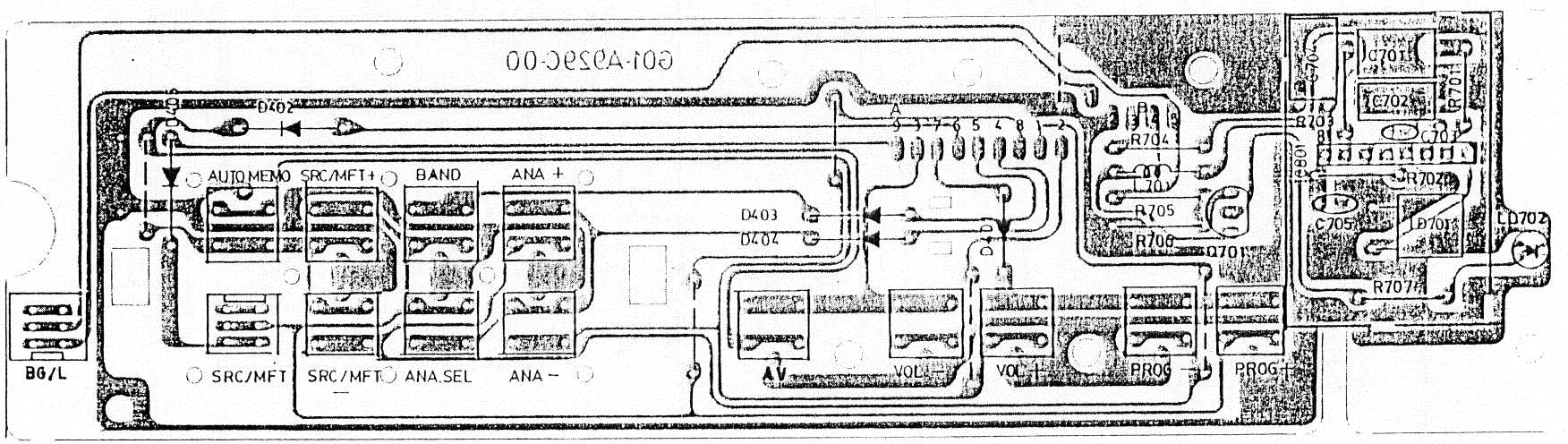
T-929SL



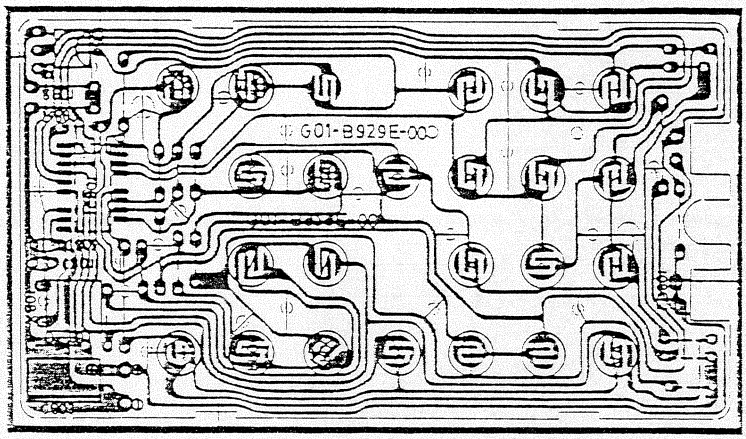
TUNER CIRCUIT



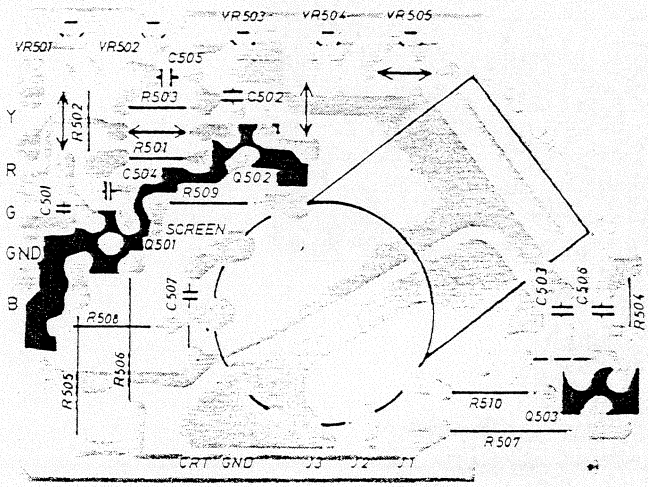
COPPER SIDE OF CONTROL P.C. BOARD



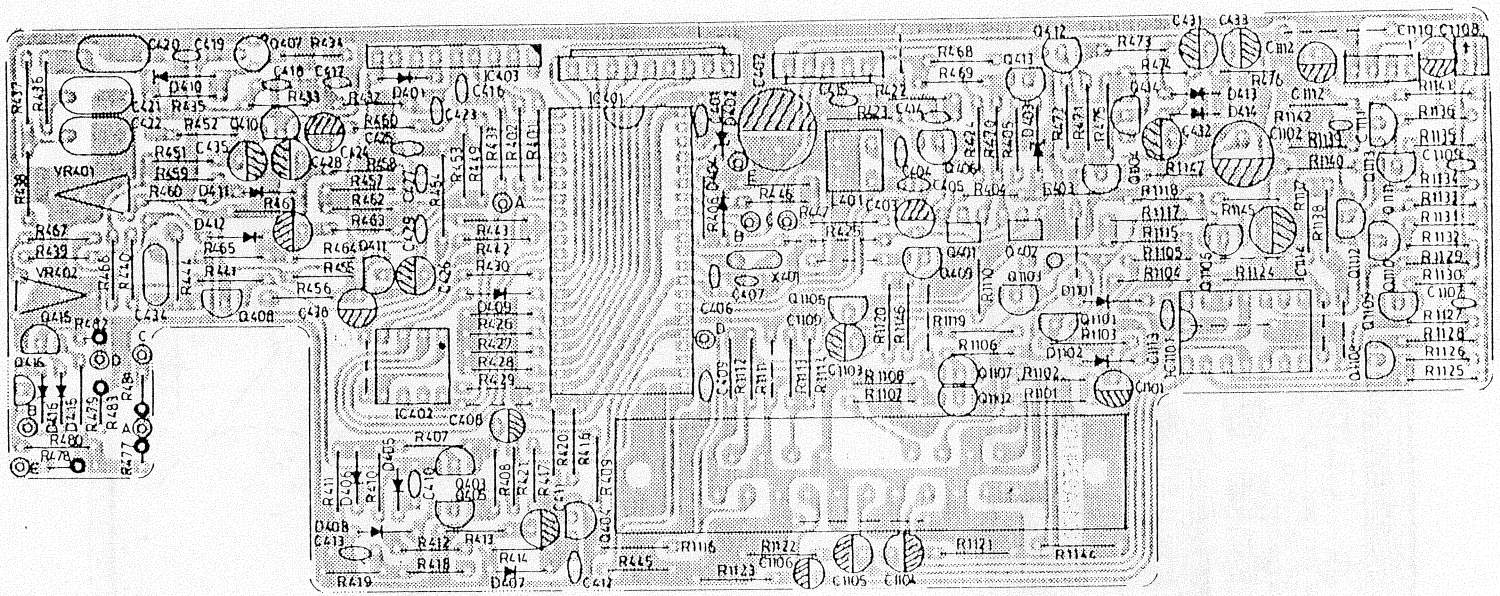
COMPONENT VIEW OF HANDSET P.C. BOARD



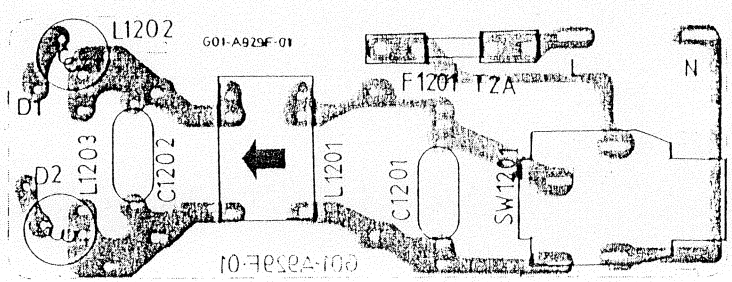
COPPER SIDE OF CRT P.C. BOARD



COPPER SIDE OF ON-SCREEN DISPLAY AND R.G.B. INPUT P.C. BOARD



COPPER AND BOTTOM SIDE OF LINE FILTER P.C. BOARD



ELECTRICAL PARTS LIST

SCHEMATIC NO	PART NO.	DESCRIPTION
*** MAIN P.C.B. ASSEMBLY ***		
TRANSISTOR		
Q101	A01-CZ17A-00	2SC2717
Q103, 104, 105, 106, 107, 108, 109, 202, 601, 603	A01-C815E-00	2SC1815-Y
Q301	A01-C229D-00	2SC2229-0
Q201	A01-A562E-00	2SA562-TMY
Q302	A01-C073D-00	2SC2073
Q303	A01-A940D-00	2SA940
Q304	A01-C482D-00	2SC2482
Q305	A01-D426A-00	2SD1426
Q602	A01-B774D-00	2SB774-T
Q605	A01-C230E-00	2SC2230-AY
Q606	A01-A013E-00	2SA1013Y
Q607	A02-C335C-00	2SC2335ALTERNATE BUT11 (A06-T011C-00)
Q604	A01-D431A-00	2SD1431
DIODE		
D107, 202, 203, 204, 205, 206, 207, 208, 209, 210, 213, D214, 215, 217, 218, 219, 220, 304, 305	B01-01555-00	1S1555
D306, 307, 604, 605, 606, 607	B01-02529-00	S5295G ALTERNATE BYT52K (B08-02052-01)
D308	B01-02529-01	S5295J ALTERNATE BYT52K (B08-02052-01)
D608	B01-02835-00	1S1835 ALTERNATE BYT52K (B08-02052-01)
D302, 303	B01-02002-00	TVR-2D
D601	B07-01010-01	FM156
D301	B01-01004-00	1N4004S
D102, 103, 104, 105, 106	B04-08060-00	1N60
D602	B01-04082-00	8.2V ZENER (GAZ8.2Y)
D603	B01-04090-00	9.1Y ZENER (GZA9.1Y)
D212, 216	B01-04120-00	12V ZENER (GAZ12Y)
SEMI-FIXED RESISTOR		
VR208, 601	C01-B103B-C0	1KB COLOR MATRIX
VR101	C01-B504B-C0	50KB AGC
VR205, 207	C02-A104B-C0	10KB H-HOLD V-HEIGHT
VR206	C02-A205B-C0	200KB V-HOLD
CARBON FILM RESISTOR +/-5% 1/4W		
R155	D00-A047C-D0	4.7 OHM
R138	D00-A100C-D0	10 OHM
R121	D00-A270C-D0	27 OHM
R312	D00-A470C-D0	47 OHM
R244	D00-A680C-D0	68 OHM
R2106	D00-A820C-D0	82 OHM
R104, 149, 249	D00-A101C-D0	100 OHM
R273, 274, 275	D00-A151C-D0	150 OHM
R116, 156, 262, 285	D00-A221C-D0	220 OHM
R259	D00-A241C-D0	240 OHM
R166, 241, 297, 604	D00-A331C-D0	330 OHM
R167, 292	D00-A391C-D0	390 OHM
R118, 242, 243 268	D00-A471C-D0	470 OHM

SCHEMATIC NO.	PART NO.	DESCRIPTION
R152, 171, 253, 257, 261	D00-A561C-D0	560 OHM
R157, 170, 263 264, 294, 299	D00-A681C-D0	680 OHM
R210, 214, 225 260	D00-A821C-D0	820 OHM
R120, 128, 129, 130, 132, 134, 142, 143, 150, 165, 177, R238, 252, 271, 272, 615	D00-A102C-D0	1 KOHM
R181, 269, 270 2100	D00-A122C-D0	1.2 KOHM
R123, 213, 254 258, 291, 295, 240	D00-A152C-D0	1.5 KOHM
R232, 290, 296, 606	D00-A182C-D0	1.8 KOHM
R115, 127, 131, 136, 158, 161, 172, 218, 250, 151	D00-A222C-D0	2.2 KOHM
R2105	D00-A242C-D0	2.4 KOHM
R283, 147	D00-A272C-D0	2.7 KOHM
R608	D00-A302C-D0	3 KOHM
R162, 233, 276, 277, 278, 293, 298	D00-A332C-D0	3.3 KOHM
R226, 227	D00-A362C-D0	3.6 KOHM
R135, 284	D00-A392C-D0	3.9 KOHM
R124, 125, 611	D00-A472C-D0	4.7 KOHM
R119	D00-A562C-D0	5.6 KOHM
R173, 176, 222, 605, 610	D00-A682C-D0	6.8 KOHM
R607, 224	D00-A822C-D0	8.2 KOHM
R101, 146, 160 164, 175, 246, 280, 286, 609	D00-A103C-D0	10 KOHM
R159	D00-A123C-D0	12 KOHM
R168, 174, 192, 223, 617	D00-A153C-D0	15 KOHM
R169, 239, 105	D00-A183C-D0	18 KOHM
R117, 153, 163, 251, 287, 289	D00-A223C-D0	22 KOHM
R305	D00-A243C-D0	24 KOHM
R229, 148	D00-A273C-D0	27 KOHM
R154, 265, 266, 279	D00-A333C-D0	33 KOHM
R228, 255	D00-A363C-D0	36 KOHM
R236, 282, 106	D00-A393C-D0	39 KOHM
R122, 180, 191, 303	D00-A473C-D0	47 KOHM
R212, 216, 281, 304	D00-A563C-D0	56 KOHM
R107, 221	D00-A683C-D0	68 KOHM
R267	D00-A823C-D0	82 KOHM
R141, 205, 209, 288	D00-A104C-D0	100 KOHM
R140, 2108	D00-A224C-D0	220 KOHM
R237	D00-A244C-D0	240 KOHM
R256	D00-A334C-D0	330 KOHM
R215	D00-A564C-D0	560 KOHM
R102, 2107	D00-A105C-D0	1 MOHM
R235	D00-A565C-D0	5.6 KOHM
R108	D00-A274C-D0	270 KOHM

ELECTRICAL PARTS LIST

SCHEMATIC NO	PART NO.	DESCRIPTION
CARBON FILM RESISTOR +/-5% 1/2W		
R245	DO0-A471C-F0	470 OHM
R247	DO0-A222C-F0	2.2 KOHM
R310	DO0-A272C-F0	2.7 KOHM
R315	DO0-A103C-F0	10 KOHM
R616	DO0-A104C-F0	100 KOHM
R313	DO0-A154C-F0	150 KOHM
METAL FILM RESISTOR		
R230	DO0-C153B-D0	15 KOHM +/-2% 1/4W
R231	DO0-C154B-D0	150 KOHM +/-2% 1/4W
METAL OXIDE FILM RESISTOR		
R220	DO4-D561C-F0	560 OHM +/-5% 1/2W
R248	DO4-D222C-G0	2.2 KOHM +/-5% 1W
R308	DO4-D027C-G0	2.7 OHM +/-5% 1W
R307	DO4-D100C-G0	10 OHM +/-5% 1W
R2104	DO4-D390C-G0	39 OHM +/-5% 1W
R620	DO4-D003C-H0	0.33 OHM +/-5% 2W
R612, 681	DO4-D120C-H0	12 OHM +/-5% 2W
R613	DO4-D270C-H0	27 OHM +/-5% 2W
R114, 219	DO0-D822C-H0	8.2 KOHM +/-5% 2W
R311	DO0-D222C-I0	2.2 KOHM +/-5% 3W
R614	DO0-D181C-G0	180 OHM +/-5% 1W
FUSIBLE RESISTOR		
R306	DO3-E100C-F0	10 OHM +/-5% 1/2W
R316	DO3-E002C-H0	2.2 OHM +/-5% 2W
NON-INFLAMMABLE RESISTOR		
R602	DO3-G040D-J0	4 OHM +/-10% 5W KW-SQZ
R603	DO3-G022D-HO	2.2 OHM +/-10% 2W KW-KNP
R623	DO3-G390D-K0	39 OHM +/-10% 6W KW-KNP
R317	DO3-G039D-H0	3.9 OHM +/-10% 2W KW-KNP
R601	DO6-H300Z-O0	P.T.C. THERMISTOR
CARBON COMPOSITIN RESISTOR		
R624, 625	DO5-B565D-F0	5.6 MOHM +/-10% 1/2W
R621, 622	DO5-B184C-F0	180 KOHM +/-5% 1/2W
CERAMIC CAPACITOR		
C122, 123, 135	F01-C020F-A0	2PF 50V +/-0.25PF
C134	F01-C040F-A0	4PF 50V +/-0.25PF
C132	F01-C050F-A0	5PF 50V +/-0.25PF
C175	F01-C030F-A0	3PF 50V +/-0.25PF
C131	F01-C080F-B0	8PF 50V +/-0.5PF
C232, 239	F01-C100F-C0	10PF 50V +/-5%
C125, 129	F01-C120F-C0	12PF 50V +/-5%
C204, 255	F01-C150F-C0	15PF 50V +/-5%
C238	F01-C220F-C0	22PF 50V +/-5%
C212	F01-C270F-C0	27PF 50V +/-5%
C262, 280	F01-C330F-C0	33PF 50V +/-5%
C266, 270	F01-C390F-C0	39PF 50V +/-5%
C124	F01-C560F-C0	56PF 50V +/-5%
C241, 267, 271	F01-C680F-C0	68PF 50V +/-5%
C136, 137, 138, 139	F01-C101F-C0	100PF 50V +/-5%
C257	F01-C151F-C0	150PF 50V +/-5%
C118, 225, 248, 249, 279, 281	F01-C221F-C0	220PF 50V +/-5%
C269, 273	F01-C331F-C0	330PF 50V +/-5%
C211	F01-C471F-C0	470PF 50V +/-5%
C224, 268, 272	F01-C102F-D0	1000PF 50V +/-10%

SCHEMATIC NO.	PART NO.	DESCRIPTION
C114	F01-C472F-G0	.0047UF 50V +80-20%
C106, 110, 111, 112, 113, 120, 121, 140, 145, 150, 160, C177, 180, 220, 235, 236, 258, 247, 260, 261, 264, C265, 282	F01-C103F-G0	0.01UF 50V +80-20%
C202	F01-C403F-G0	0.04UF 50V +80-20%
C303, 305, 316, 319	F05-C221N-D0	220PF 500V +/-10%
C612, 199	F05-681N-D0	680PF 500V +/-10%
C308, 602, 603	F05-C472N-D0	0.0047UF 500V +/-10%
C614	F05-C2220-D0	2200PF 1000V +/-10%
C604, 615	F05-C4720-D0	4700PF 1000V +/-10%
C230	F01-C121F-C0	120PF 50V +/-5%
C616	F05-C222W-E0	AC CAPACITOR 2200PF AC400V +/-5%
POLYESTER FILM CAPACITOR		
C148	F11-M202H-D0	0.002UF 100V +/-10%
C176	F11-M472H-D0	0.004UF 100V +/-10%
C130, 208	F11-M103H-D0	0.01UF 100V +/-10%
C222	F11-M153H-D0	0.015UF 100V +/-10%
C244, 245, 246	F11-M223H-D0	0.022UF 100V +/-10%
C221, 606	F11-M333H-D0	0.033UF 100V +/-10%
C127, 162	F11-M473H-D0	0.047UF 100V +/-10%
C608	F11-M104H-D0	0.1UF 100V +/-10%
C226	F11-M224H-D0	0.22UF 100V +/-10%
POLYPROPYLENE FILM CAPACITOR (B TYPE)		
C213	F08-D152F-C0	0.0015UF 50V +/-5%
C215	F08-D562F-C0	50V +/-5%
C219	F08-D302F-C0	0.003UF 50V +/-5%
C214	F08-D103F-C0	0.01UF 50V +/-5%
POLYROPYLENE FILM CAPACITOR		
C306	F01-P103KZ-D0	0.01UF 200V +/-10%
C312	F01-P473K-D0	0.047UF 200V +/-10%
C321	F01-P563K-D0	0.056UF 200V +/-10%
C315	F01-P524K-D0	0.52UF 200V +/-10%
C311	F01-P222N-D0	0.0022UF 600V +/-10%
C610	F01-P222O-C0	0.0022UF 1200V +/-5%
C314	F01-P562P-C0	0.0056UF 1600V +/-5%
T-C CERAMIC CAPACITOR		
C144	F01-L680F-C0	68PF 50V +/-5%
ELECTROLYTIC CAPACITOR (SINGLE ENDED TYPE)		
C117	F01-E476B-E0	47UF 10V +/-20%
C133	F01-E107B-E0	100UF 10V +/-20%
C158, 201, 206	F01-E475C-E0	4.7UF 16V +/-20%
C143, 146, 157 159, 163, 178, 210, 242, 243, C250, 251, 274, 275	F01-E106C-E0	10UF 16V +/-20%
C126, 147	F01-E226C-E0	22UF 16V +/-20%
C169	F01-E476C-E0	47UF 16V +/-20%
C115, 119, 128, 151, 153, 171, 168, 170	F01-E107C-E0	100UF 16V +/-20%
C161, 165	F01-E227C-E0	220UF 16V +/-20%
C164, 174	F01-E337C-E0	330UF 16V +/-20%
C278	F01-E477C-E0	470UF 16V +/-20%
C229	F01-EE108-E0	1000UF 16V +/-20%
C609	F01-E476D-E0	47UF 25V +/-20%
C611	F01-E227D-E0	220UF 25V +/-20%

ELECTRICAL PARTS LIST

SCHEMATIC NO	PART NO.	DESCRIPTION
C317	F01-E108D-E0	1000UF 25V +/-20%
C152, 156, 218, 223, 228, 237, 102	F01-E474F-E0	0.47UF 50V +/-20%
C101, 103, 104, 107, 142, 207, 209, 216, 259, 217, 233, C234, 252, 253, 254, 263	F01-E105F-E0	1UF 50V +/-20%
C309	F01-E225F-E0	2.2UF 50V +/-20%
C109, 302, 607	F01-E106F-E0	10UF 50V +/-20%
C307	F01-E107F-E0	100UF 50V +/-20%
C227	F01-E225F-D0	2.2UF 50V +/-10%
C304	F01-E475I-F0	4.7UF 160V +/-10%
C613	F01-E476I-F0	47UF 160V +50-10%
C320	F01-E107I-F0	100UF 160V +50-10%
C605	F01-E107M-F0	100UF 500V +50-10%
C318	F01-E106L-F0	10UF 250V +50-10%
C166, 167	F01-E336C-E0	33UF 16V +/-20%
C301	F01-E476F-E0	47UF 50V +/-20%
NON-POLARIZED ELECTROLYTIC CAPACITOR		
C116	F01-N475C-E0	4.7UF 16V +/-20%
	G01-A118A-20	MAIN P.C. BOARD
COIL		
L101, 110	H05-0101A-00	PEAKING COIL 0.56UH
L102	H05-0102A-00	PEAKING COIL 1UH
L106	H05-0103A-00	PEAKING COIL 5.6UH
L107, 115	H05-0105A-00	PEAKING COIL 15UH
L109	H05-0107A-00	PEAKING COIL 68UH
L201	H05-0106A-00	PEAKING COIL 33UH
L205	H05-0104A-00	PEAKING COIL 8.2UH
L103, 111, 112	H01-1301A-00	PIF MATCHING COIL
L104, 105, 113	H01-1302A-00	PIF DET COIL
L108	H01-1303A-00	SIF DET COIL
L203	H01-1402A-00	BURST CLEANING COIL
L207	H01-1403A-00	BELL FILTER COIL
L208	H01-1404A-00	IDENT COIL
L209, 210	H01-1405A-00	DISCRI BURST
L206	H01-1401A-00	MATCHING COIL
L604	H01-1031A-00	CHOKE COIL 5UH
L603	H01-0101A-00	CHOKE COIL 90UH
L114	H01-0202A-00	CHOKE COIL 10UH
DL-201	H01-0701A-00	Y-DELAY LINE
T301	I01-0401A-00	HORIZONTAL DRIVE TRANSFORMER
T302	I12-0501A-00	FLYBACK TRANSFORMER CF65A
T601	I07-0601A-00	SWITCHING TRANSFORMER
TAIKO TL-25 CONNECTOR		
CONNECTOR G	J05-0102A-00	2 PIN ASS'Y TL-25P-02-V1
CONNECTOR I, L	J05-0103A-00	3 PIN ASS'Y TL-25P-03-V1
CONNECTOR B, M, F	J05-0104A-00	4 PIN ASS'Y TL-25P-04-V1
CONNECTOR K	J05-0105A-00	5 PIN ASS'Y TL-25P-05-V1
CONNECTOR H	J05-0108A-00	8 PIN ASS'Y TL-25P-08-V1

SCHEMATIC NO.	PART NO.	DESCRIPTION
CONNECTOR E	J05-0110A-00	10 PIN ASS'Y TL-25P-10-V1
	J03-0401A-00	SMK M-1 CONNECTOR WAFER 1 PIN
	J03-0406A-00	SMK M-1 CONNECTOR WAFER 6 PIN
005P-2100	J05-01010-00	TAIKO TS-80 CONNECTOR
X201	M07-A4434-00	CRYSTAL 4.43361875MHz 16PF
	N01-02B01-00	TUNER B/G SYSTEM
INTEGRATED CIRCUIT		
IC201	001-02420-00	TA7698AP
IC202	004-01300-00	M51397AP
IC105	007-06020-00	L5630
IC101	003-01160-00	TDA2542
IC102	007-01160-00	LA7710
IC103	005-01070-00	AN5215
IC104	005-01090-00	AN5265
IC203	007-01030-00	L7812 ALTERNATE UA7812UC (003-01030-00)
IC106	003-01140-00	HCF4066BE ALTERNATE CD4066B (015-01140-00)
SAW101	X01-03001-00	TV PIF SAW FILTER F1034
CF101	X02-01001-00	CERAMIC FILTER SFE5.5MB
CF102	X02-02001-00	CERAMIC FILTER TPS5.5MB
DL202	Y02-01401-00	01ULTRASONIC DELAY LINE ALTERNATE (Y03-01401-01) GLASS DELAY LINE
SINGLE JUMPER WIRE AWG22 (L2/L3 = 5MM NON TINNED)		
A	S02-B5000-EA	50MM BLACK
B, D	S02-B6000-EA	60MM BLACK
C, H, W, G	S02-B8000-EA	80MM BLACK
E, S	S02-B1213-EA	120MM ORANGE
Q	S02-B2017-EA	200MM VIOLET
V	S02-B2216-EA	220MM BLUE
I	S02-B2412-EA	240MM RED
U	S02-B6001-EA	60MM BROWN
SINGLE SHIELDED WIRE AWG28		
1	S02-K1911-KA	190MM BROWN INNER WIRE (WHITE) L1 = 190MM L2 = 3.5MM SLEEVE L1 = 190MM L3 = 15MM
1	S02-K1918-KA	190MM GREY INNER WIRE (WHITE) L1 = 190MM L2 = 3.5MM SLEEVE L1 = 190MM L3 = 15MM
*** CRT P.C.B. ASSEMBLY ***		
TRANSISTOR		
Q501, 502, 503	A01-C4820-00	2SC2482
SEMI-FIXED RESISTOR		
VR501, 502	C01-A202B-C0	200B (RVF8W01-201) G.B.-DRIVE
VR503, 504, 505	C01-A503B-C0	5KB (RVFSW01-502) R.G.B.-CUT OFF

ELECTRICAL PARTS LIST

SCHEMATIC NO	PART NO.	DESCRIPTION
CARBON FILM RESISTOR +/-5% 1/4W		
R501, 503, 504	D00-A151C-D0	150 OHM
R502	D00-A121C-D0	120 OHM
CARBON COMPOSITION RESISTOR 1/2W +/-10%		
D05-B472C-F0	4.7 KOHM	
METAL OXIDE RESISTOR		
R505, 506, 507	D04-D153C-H0	15 KOHM 2W +/-5%
CERAMIC CAPACITOR		
C501, 502, 503	F01-C151F-C0	150F 50V +/-5%
C504, 505, 506	F01-C102F-D0	.001UF 50V +/-10%
C507	F05-C4720-D0	.0047UF 1KV +/-10%
PCB501	G01-A118E-00	CRT P.C. BOARD
SK501	V01-05001-60	PICTURE TUBE SOCKET
005P-2100	J05-01010-00	TAIKO TS-80 CONNECTOR 1 PIN
STRAND JUMPER AWG24 (UL1007)		
W501	S02-D2812-IA	280MM RED J1
W502	S02-D2814-IA	80MM YELLOW J2
W503	S02-D2810-IA	280MM BLACK J3
CONNECTOR ASSEMBLY		
PLUG Y	J03-0101A-02	SMK M-1 CONNECTOR 1 PIN WIRE TYPE: AWG24, STRAND, 1007 UL/CSA APPROVED L1 = 380MM WHITE L2 = 3.5MM TINNED
PLUG H	J05-0504A-02	TAIKO TLB-P CONNECTOR WIRE TYPE: AWG24, STRAND, 1007 UL/CSA APPROVED L1 = 380MM WHITE L2 = 3.5MM TINNED
PLUG H	J05-0504A-02	TAIKO TLB-P CONNECTOR WIRE TYPE: AWG24, STRAND, 1007 UL/CSA APPROVED PIN 1 L1 = 320MM GREEN L2 = 3.5MM TINNED PIN 2 L1 = 320MM BLUE L2 = 3.5MM TINNED PIN 3 L1 = 320MM RED L2 = 3.5MM TINNED PIN 4 L1 = 320MM BLACK L2 = 3.5MM TINNED
** ON-SCREEN DISPLAY & R.G.B. INPUT ASSEMBLY **		
TRANSISTOR		
Q1108, 1109, 1110, 1111, 1112, 1113	A01-C815D-00	2SC1815D (NO TERNATIVE SOURCE)
Q1102, 1103, 1104, 1105, 1106, 1107	A01-C815E-00	2SC1815Y (NO ALTERNATIVE SOURCE)
Q401, 402, 403, 404, 405, 406, 409, 412, 413, 414	A01-C815E-00	2SC1815Y
Q410, 411, 1101	A01-A015E-00	2SA1015Y
407	A06-S002D-00	BSX20

SCHEMATIC NO.	PART NO.	DESCRIPTION
DIODE		
D401, 405, 406, 407, 408, 409, 411, 412, 413, 414, 417	B01-01148-00	IN4148
D404	B01-01555-00	1S1555
D403	B01-04039-00	3V9 ZENER (UZ3.9B)
D402	B01-04051-00	5V1 ZENER (GZA5, 1Y)
D1101, 1102	B01-08060-00	1N60
CARBON FILM RESISTOR +/-5% 1/4 W		
R1111	D01-A270C-D0	27 OHM
R1112	D01-A560C-D0	56 OHM
R1121, 1122, 1123, 1114	D01-A750C-D0	75 OHM
R409	D01-A101C-D0	100 OHM
R403	D01-A121C-D0	120 OHM
R410, 1104	D01-A221C-D0	220 OHM
R411, 1128, 1133, 1139	D01-A681C-D0	680 OHM
R417, 421, 425, 426, 427, 428, 429, 432, 447, 452, R456, 475, 1113, 1120, 1144, 1147	D01-A102C-D0	1 KOHM
R413, 414, 418, 1105, 1130, 1135, 1141	D01-A152C-D0	1.5 KOHM
R470, 1106, 1115, 1108, 1129, 1136, 1142	D01-A222C-D0	2.2 KOHM
R430	D01-A242C-D0	2.4 KOHM
R1127, 1134, 1140	D01-A272C-D0	2.7 KOHM
R433	D01-A332C-D0	3.3 KOHM
R401, 402, 422	D01-A472C-D0	4.7 KOHM
R450, 454, 423	D01-A562C-D0	5.6 KOHM
R412, 1103	D01-A682C-D0	6.8 KOHM
R1145	D01-A752C-D0	7.5 KOHM
R404, 405, 406, 416, 419, 420, 431, 446, 449, 451, 455, R457, 462, 468, 469, 471, 1107, 1109, 1124, 1116, R424, 453	D01-A103C-D0	10 KOHM
R443	D01-A153C-D0	15 KOHM
R1101, 1102, 1110, 1119	D01-A223C-D0	22 KOHM
R434, 435, 459, 1117	D01-A333C-D0	33 KOHM
R407, 460, 461, 1146	D01-A393C-D0	39 KOHM
R408, 1118, 1125, 1131, 1137	D01-A563C-D0	56 KOHM
R445, 473, 474, 476, 465	D01-A683C-D0	68 KOHM
R463, 466	D01-A104C-D0	100 KOHM
R467	D01-A124C-D0	120 KOHM
R1126, 1132, 1138	D01-A154C-D0	150 KOHM
R458	D01-A224C-D0	220 KOHM
438, 439, 440, 441	D01-A565C-D0	5.6 KOHM
R444	D01-A392C-D0	3.9 KOHM
R442	D01-A183C-D0	18 KOHM
SEMI-FIXED RESISTOR		
VR401	C01-B104B-C0	10KB SUB-BRIGHT
VR402	C01-B504B-C0	50KB SUB-COLOUR

ELECTRICAL PARTS LIST

SCHEMATIC NO	PART NO.	DESCRIPTION
CERAMIC CAPACITOR		
C404, 405	F01-C150F-C0	15PF 50V +/-5%
C406, 407	F01-C300F-C0	30PF 50V +/-5%
C1107, 1109, 1111	F01-C680F-C0	68PF 50V +/-5%
C410, 423, 425, 427, 429, 416	F01-C101F-C0	100PF 50V +/-5%
C418, 419	F01-C221F-C0	220PF 50V +/-5%
C415	F01-C471F-C0	479PF 50V +/-5%
C435	F01-C561F-C0	560PF 50V +/-5%
C409	F01-C821F-C0	820PF 50V +/-5%
C412, 413, 1113	F01-C103F-G0	0.01UF 50V +80-20%
C401, 414	F01-C203F-G0	0.02UF 50V +80-20%
POLYESTER FILM CAPACITOR		
C420	F11-M224H-D0	0.22UF 100V +/-10%
C434	F11-M223H-D0	0.022UF 100V +/-10%
ELECTROLYTIC CAPACITOR		
C428, 430, 431, 432, 433, 435, 1108, 1110, 1112, C1110, 1112	F01-E105F-E0	1UF 50V +/-20%
C424	F01-E335F-E0	3.3UF 50V +/-20%
C1104, 1105, 1106	F01-E475C-E0	4.7UF 16V +/-20%
C1114	F01-E476C-E0	47UF 16V +/-20%
C1102	F01-E107C-E0	100UF 16V +/-20%
C402	F01-E337C-E0	330UF 16V +/-20%
C403, 408, 411, 436	F01-E105F-E1	1UF 50V +/-20%
C426	F01-E335F-E1	3.3UF 50V +/-20%
C1101, 1103	F01-E106C-E1	10UF 16V +/-20%
INTEGRATED CIRCUIT		
IC401	001-08420-00	TMP47C434N-3526
IC402	001-09080-00	TC89101P
IC403	007-02090-00	LA7910
TC1101	003-01140-00	HCF4066BE ALTERNATE LD406613 (6512-00214A-00)
X401	M01-A4004-00	CERAMIC RESONATOR 4MHZ CSA4.00MG
L401	H01-1901A-00	OSC COIL
	V03-11001-00	SCART SOCKET (21-PIN CONNECTOR)
	J05-0105A-00	5 PIN ASS'Y TL-25P-05-V1
	J05-0109A-00	9 PIN ASS'Y TL-25P-09-V1
	G01-A929H-00	O.S.D. & R.G.B. INPUT P.C.B.
SOCKET M	J05-0204A-04	TAIKO CONNECTOR ASSEMBLY 4 PINS TL-25H V-TYPE WIRE: AWG26 STRAND UL1007 PIN 1 L1 = 200MM YELLOW L2 = 3.5MM TINNED PIN 2 L1 = 200MM GREEN L2 = 3.5MM TINNED PIN 3 L1 = 200MM BLUE L2 = 3.5MM TINNED PIN 4 L1 = 200MM GREY L2 = 3.5MM TINNED

SCHEMATIC NO.	PART NO.	DESCRIPTION
SOCKET F	J05-0204A-01	TAIKO CONNECTOR ASSEMBLY 4 PINS TL-25H V-TYPE WIRE: AWG26 STRAND UL1007 PIN 1 L1 = 260MM BLACK L2 = 3.5MM TINNED PIN 2 L1 = 320MM RED L2 = 3.5MM TINNED PIN 3 L1 = 260MM WHITE L2 = 3.5MM TINNED PIN 4 L1 = 260MM YELLOW L2 = 3.5MM TINNED
SOCKET K	J05-0205A-01	TAIKO CONNECTOR ASSEMBLY 5 PINS TL-25H V-TYPE WIRE: AWG26 STRAND UL1007 PIN 1 L1 = 320MM BROWN L2 = 3.5MM TINNED PIN 2 L1 = 320MM RED L2 = 3.5MM TINNED PIN 3 L1 = 320MM ORANGE L2 = 3.5MM TINNED PIN 4 L1 = 320MM YELLOW L2 = 3.5MM TINNED PIN 5 L1 = 320MM GREEN L2 = 3.5MM TINNED
SOCKET E	J05-0210A-02	TAIKO CONNECTOR ASSEMBLY 10 PINS TL-25H V-TYPE WIRE: AWG26 STRAND UL1007 PIN 1 L1 = 150MM BROWN L2 = 3.5MM TINNED PIN 2 L1 = 150MM RED L2 = 3.5MM TINNED PIN 3 L1 = 150MM ORANGE L2 = 3.5MM TINNED PIN 4 L1 = 150MM YELLOW L2 = 3.5MM TINNED PIN 5 L1 = 150MM GREEN L2 = 3.5MM TINNED PIN 6 L1 = 150MM BLUE L2 = 3.5MM TINNED PIN 7 L1 = 150MM VIOLET L2 = 3.5MM TINNED PIN 8 PIN 9 L1 = 150MM WHITE L2 = 3.5MM TINNED PIN 10 L1 = 150MM BLACK L2 = 3.5MM TINNED
SOCKET L	J05-0203A-01	TAIKO CONNECTOR ASSEMBLY 3 PINS TL-25H V-TYPE WIRE: AWG26 STRAND UL1007

SCHEMATIC NO	PART NO.	DESCRIPTION
		PIN 1 L1 = 150MM GREEN L2 = 3.5MM TINNED PIN 2 L1 = 150MM BLUE L2 = 3.5MM TINNED PIN 3 L1 = 150MM RED L2 = 3.5MM TINNED PIN 4 L1 = 150MM BLACK L2 = 3.5MM TINNED
SOCKET I	J05-0203A-02	TAIKO CONNECTOR ASSEMBLY 3 PINS TL-25H V-TYPE WIRE: AWG26 STRAND UL1007 PIN 1 PIN 2 L1 = 170MM RED L2 = 3.5MM TINNED PIN 3 L1 = 180MM ORANGE L2 = 3.5MM TINNED
SOCKET H	J05-0208A-00	TAIKO CONNECTOR ASSEMBLY 8 PINS TL-25H V-TYPE WIRE: AWG26 STRAND UL1007 PIN 1 L1 = 90MM BROWN L2 = 3.5MM TINNED PIN 2 L1 = 90MM RED L2 = 3.5MM TINNED PIN 3 L1 = 90MM ORANGE L2 = 3.5MM TINNED PIN 4 PIN 5 L1 = 90MM GREEN L2 = 3.5MM TINNED PIN 6 L1 = 90MM BLUE L2 = 3.5MM TINNED PIN 7 L1 = 90MM VIOLET L2 = 3.5MM TINNED PIN 8 L1 = 90MM GREY L2 = 3.5MM TINNED
*** CONTROL P.C.B. ASSEMBLY ***		
Q701	A01-A015E-00	2SA1015Y
DIODE		
Q401, 402, 403, 404, 405	B01-01148-00	1N4148
CARBON FILM RESISTOR 1/4W +/-5%		
R701	D01-A047C-D0	4.7 OHM
R704	D01-A222C-D0	2.2 KOHM
R703	D01-A223C-D0	22 KOHM
R702	D01-A224C-D0	220 KOHM
R705	D01-A562C-D0	5.6 KOHM
R706	D01-A823C-D0	82 KOHM
R707	D01-A221C-D0	220 OHM
CERAMIC CAPACITOR		
C705	F01-C203F-G0	0.02UF 50V +80-20%
C703	F01-C331F-C0	330PF 50V +/-5%

SCHEMATIC NO.	PART NO.	DESCRIPTION
ELECTROLYTIC CAPACITOR		
C702	F01-E335F-E0	3.3UF 50V +/-20%
C701	F01-E105F-E0	1UF 50V +/-20%
C704	F01-E476B-E0	47UF 10V +/-20%
PCB003	G01-A929C-00	CONTROL P.C. BOARD
L701	H05-0111A-00	CHOKE COIL 100UH
SW701, 702, 703, 704, 705	K13-0101A-01	TACT SWITCH (SHAFT LENGTH 1.5MM) ALTERNATE (K07-0101A-02)
SW706, 707, 708 709, 710, 711, 712	K13-0101A-02	TACT SWITCH (SHAFT LENGTH 6MM) ALTERNATE (K07-0101A-02)
SW713, 714	K19-0202A-00	PUSH SWITCH
IC701	P01-06010-00	PHOTO DIODE TPS703
LD702	P01-01020-00	LED RED TLR208
	J05-0209A-03	TAIKO CONNECTOR ASSEMBLY 9 PINS TL-25H V-TYPE WIRE: AWG26 STRAND UL1007 PIN 1 L1 = 330MM BROWN L2 = 3.5MM TINNED PIN 2 L1 = 330MM RED L2 = 3.5MM TINNED PIN 3 L1 = 330MM ORANGE L2 = 3.5MM TINNED PIN 4 L1 = 330MM YELLOW L2 = 3.5MM TINNED PIN 5 L1 = 330MM GREEN L2 = 3.5MM TINNED PIN 6 L1 = 330MM BLUE L2 = 3.5MM TINNED PIN 7 L1 = 330MM VIOLET L2 = 3.5MM TINNED PIN 8 L1 = 330MM GREY L2 = 3.5MM TINNED PIN 9 L1 = 330MM WHITE L2 = 3.5MM TINNED
	J05-0205A-01	TAIKO CONNECTOR ASSEMBLY 5 PINS TL-25H V-TYPE WIRE: AWG26 STRAND UL1007 PIN 1 L1 = 320MM BROWN L2 = 3.5MM TINNED PIN 2 L1 = 320MM RED L2 = 3.5MM TINNED PIN 3 L1 = 320MM ORANGE L2 = 3.5MM TINNED PIN 4 L1 = 320MM YELLOW L2 = 3.5MM TINNED PIN 5 L1 = 320MM GREEN L2 = 3.5MM TINNED